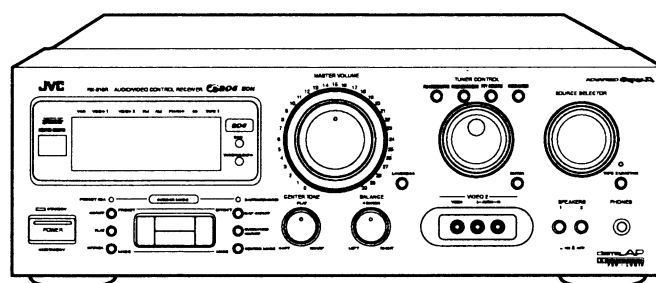
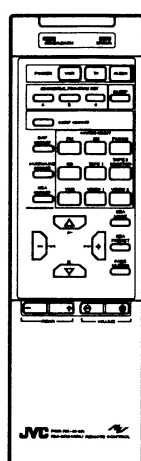


JVC

AUDIO/VIDEO CONTROL RECEIVER

RX-816RBK



Area Suffix

BS		the U.K.
EF		Continental Europe
EN		Scandinavia
G		Germany
GI		Italy

COMPU LINK
 /// Remote ///
 Control Component

Safety Precautions

1. The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (Δ) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
5. Leakage current check (Electrical shock hazard testing)
After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).

- Alternate check method

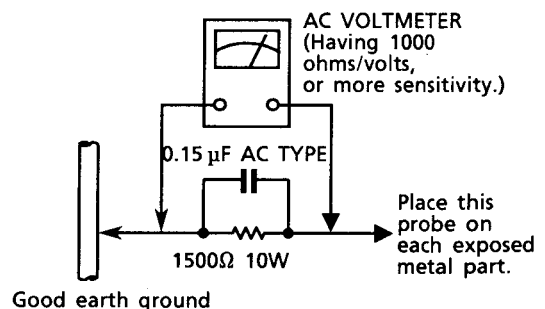
Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10 W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a known good earth ground.

Measure the AC voltage across the resistor with the AC voltmeter.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor.

Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.).

This corresponds to 0.5 mA AC (r.m.s.).



Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

Table of Contents

Introduction 2

 Switches, Buttons and Controls 2

Getting Started 4

 Before Installation 4

 Checking the Supplied Accessories 4

 Connecting the FM and AM (MW/LW) Antennas 5

 Connecting the Speakers 6

 Connecting Audio/Video Components 9

 Connecting Audio Components for the COMPU LINK-3 Remote Control System 10

 Power Supply through the RX-816RBK to a Connected Component 11

 Connecting the Power Cord 12

 Putting Batteries in the Remote 12

Basic Operations 13

 Turning the Power On and Off 13

 Selecting the Source to Play 13

 Selecting the Front Speakers 14

 Adjusting the Volume 14

 Adjusting the Front Speaker Output Balance 14

 Listening at Low Volume (Loudness) 15

 Recording a Source 15

 Listening with Headphones 15

 Muting the Sound 15

Receiving Radio Broadcasts 16

 Tuning in Stations Manually 16

 Using the Preset Tuning 16

 Selecting the FM Reception Mode 17

 Using the RDS (Radio Data System) to Receive FM Stations 17

 Assigning Names to Preset Stations 21

Using the Preset SEA Modes 22

Using the Digital Surround Processor 23

 Using the DAP Modes 23

 Using the Surround Modes 25

Other Features 29

 Recording Monitor 29

 Using the CSRP Function 29

 Using the Sleep Timer 30

 Using the Remote for Operating JVC's Audio/Video Components 30

 Simplifying the Operations Using the Remote 33

 Operating Other Manufacturers' Audio/Video Components 35

 COMPU LINK Remote Control System 38

Troubleshooting 40

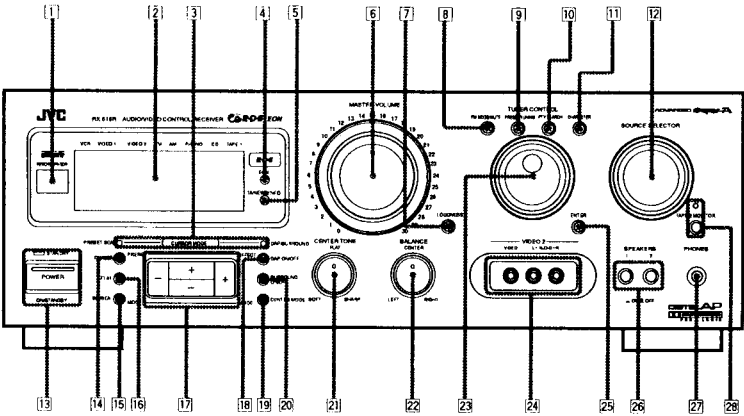
Specifications 41

Introduction

Become familiar with the buttons and controls on your RX-816RBK before use.

Switches, Buttons and Controls

Front Panel of the Main Unit



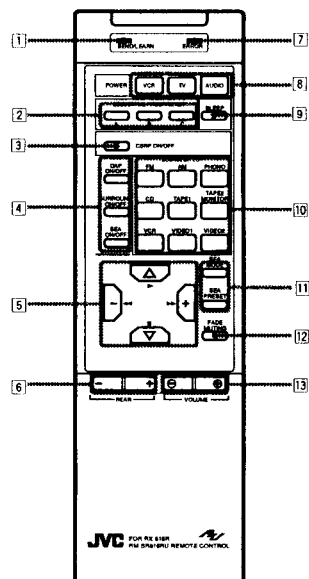
Refer to the pages in parentheses for details.

Front Panel

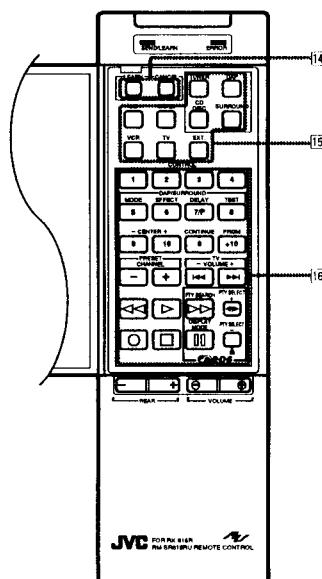
- | | |
|---|---|
| 1 Remote sensor | 21 CENTER TONE control (28) |
| 2 Display (13) | 22 BALANCE control (14) |
| 3 CURSOR MODE button and indicators (22, 24, 27, 28) | 23 TUNER CONTROL (16, 21) |
| 4 EON button (20) | 24 VIDEO 2 input jacks (10) |
| 5 TA/NEWS/INFO button (20) | 25 ENTER button (16, 21) |
| 6 MASTER VOLUME control (14) | 26 SPEAKERS 1/2 buttons (14) |
| 7 LOUDNESS button (15) | 27 PHONES jack (15) |
| 8 FM MODE/MUTE button (17) | 28 TAPE 2 MONITOR button and indicator (13, 29) |
| 9 PRESET/TUNING button (16) | |
| 10 PTY SEARCH button (19) | |
| 11 CHARACTER button (21) | |
| 12 SOURCE SELECTOR (13) | |
| 13 POWER button and STANDBY indicator (13) | |
| 14 Preset SEA ON/OFF button (22) | |
| 15 SPI/SEA (Spectrum Peak Indicator/Sound Effect Amplifier) button (22) | |
| 16 FLAT button (22) | |
| 17 Cursor buttons (+/-) (22, 24, 26, 28) | |
| 18 DAP ON/OFF button (23) | |
| 19 CENTER MODE button (26) | |
| 20 SURROUND ON/OFF button (26, 28) | |

Remote Control Unit (called "Remote" hereafter)

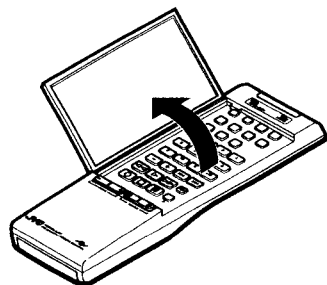
Outside panel



Inside panel



How to open the outside panel



Remote Control Unit

Outside panel

- 1 SEND/LEARN indicator (33, 35)
- 2 SEQUENTIAL PROGRAM KEYS (33)
- 3 CSRP ON/OFF button (29)
- 4 Sound mode on/off buttons (22, 23, 26, 28)
- 5 Cursor buttons (17, 30)
- 6 REAR (+/-) buttons (24, 27)
- 7 ERROR indicator (33, 35)
- 8 POWER section (13, 32)
- 9 SLEEP button (30)
- 10 SOURCE SELECT section (13, 30)
- 11 SEA buttons (22)
- 12 FADE MUTING button (15)
- 13 VOLUME +/- buttons (14)

Inside panel

- 14 Learning function buttons (33, 35)
- 15 CONTROL section (30)
- 16 Sound Adjustment buttons (24, 26, 28)
Component operating buttons (30, 35)
RDS operating buttons (18, 19, 20)

Getting Started

This section explains how to connect stereo components and speakers to the RX-816RBK, and how to connect the power supply.

Before Installation

General

- Be sure your hands are dry.
- Turn the power off to all components.
- Read the manuals supplied with the components you are going to connect.

Locations

- Install the unit in a location that is level and protected from moisture.
- The temperature around the unit must be between 23° and 104° F (-5° and 40° C).
- Make sure there is good ventilation around the unit. Poor ventilation could cause overheating and damage the unit.

Handling the unit

- Do not insert any metal object into the unit.
- Do not disassemble the unit or remove screws, covers, or cabinet.
- Do not expose the unit to rain or moisture.

Checking the Supplied Accessories

Check to be sure you have all of the following items, which are supplied with the RX-816RBK. The number in the parenthesis indicates the quantity of the pieces supplied.

- Remote (1)
- Batteries (2)
- AM (MW/LW) Loop Antenna (1)
- FM Wire Antenna (only for Germany) (1)
- FM Feeder Antenna (except for Germany) (1)
- Antenna Adaptor (except for Germany) (1)
- Mains Plug (only for the U.K.) (1)

If anything is missing, contact your dealer immediately.

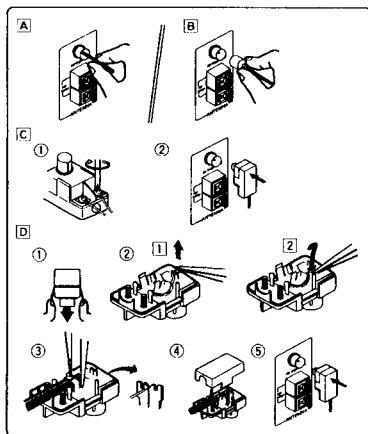


Except for the U.K., Germany, and Italy

When shipped from the factory, the fuse appropriate for the voltage of AC 230 V_~ is installed in the fuse holder.

Connecting the FM and AM (MW/LW) Antennas

FM Antenna Connections



For Germany

[A] Using the supplied wire antenna

The FM wire antenna supplied can be connected to the FM 75Ω COAXIAL as a temporary measure.

Extend the supplied wire antenna horizontally.

[B] Using the coaxial type connector (not supplied)

A 75-ohm antenna with coaxial type connector (DIN 45332) should be connected to the FM 75Ω COAXIAL terminal.

For Other European Countries

[C] Using the supplied feeder antenna

① Attach the feeder antenna to the supplied antenna adaptor as shown in the figure.

② Connect the antenna adaptor to the FM 75Ω COAXIAL terminal.

[D] Using FM 75-ohm antenna cable (not supplied)

① Open the claws at both sides and remove the cover.

② Move the conductor wire from [1] to [2] using tweezers or similar tool (only when using coaxial cable).

③ Fix the coaxial cable and its core.

④ Put on the cover.

⑤ Connect the supplied antenna adaptor to the FM 75Ω COAXIAL terminal.

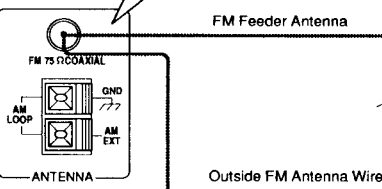
Note:

Make sure the antenna conductors do not touch any other terminals, connecting cords and power cord. This could cause poor reception.

For Other Countries

Unfold the loops of the supplied FM feeder antenna and extend them as shown.

Fasten them up in the position which gives you the best FM reception.

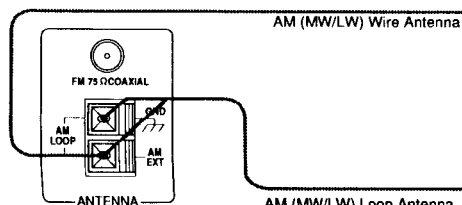


If reception is poor, connect the outside antenna. Before attaching a 75-ohm coaxial cable (the kind with a round wire going to an outside antenna), disconnect the supplied antenna.

How to strip the 75-ohm coaxial cable

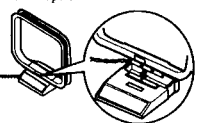
1. Strip back the outside covering of the 75-ohm coaxial cable to expose the braided metallic mesh.
2. Pull the mesh back over the cable as shown.
3. Strip the insulation about 10 mm back from the central wire.
4. Attach to the supplied antenna adaptor, as shown in the illustration above.

AM (MW/LW) Antenna Connections



If reception is poor, connect an outdoor single vinyl-covered antenna to the terminal marked AM EXT.

Turn the loop until you have the best reception.



Snap the tabs on the loop into the slots of the base to assemble the AM (MW/LW) loop.

Note:

Even when connecting an outside AM (MW/LW) antenna, keep the indoor AM (MW/LW) loop antenna connected.

Connecting the Speakers

You can connect the following speakers:

- Two sets of front speakers to produce normal stereo sound.
- One set of rear speakers to enjoy the surround effect.
- One center speaker to produce more effective surround effect (to make human voices outstanding).
- One subwoofer speaker to enhance the bass. For connecting a subwoofer, see page 9.

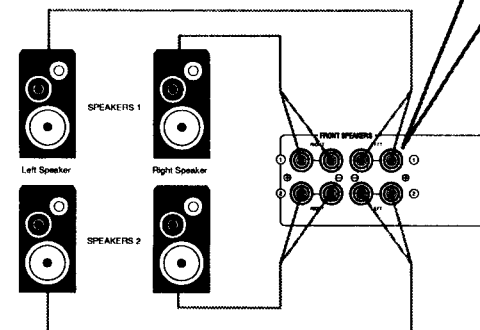
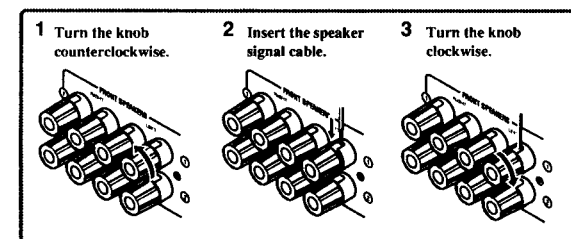
For each speaker, connect the black (–) and red (+) terminals on the rear panel to the black (–) and red (+) terminals marked on the speakers.

CAUTION:

Use speakers with the same SPEAKER IMPEDANCE indicated by the speaker terminals.

Connecting the front speakers

Twist and remove the insulation at the end of each speaker signal cable first, and then, connect the front speakers to the FRONT SPEAKERS terminals by using the cables.



About the speaker impedance of the speakers

CAUTION:

Use speakers with the same **SPEAKER IMPEDANCE** indicated by the speaker terminals.

Notes:

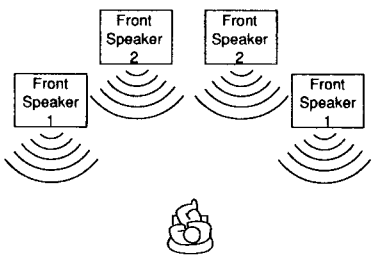
- The required speaker impedance of the front speakers differs depending on whether both the **FRONT SPEAKERS ①** and **FRONT SPEAKERS ②** terminals are used or only one of them is used.
- The required speaker impedance of the front speakers differs depending on whether or not a center and/or rear speakers are connected at the same time. Check which one fits your case and use the speaker with the impedance described below.

CASE 1 When you connect only one set of front speakers



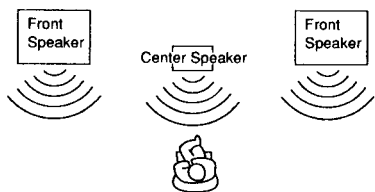
Use front speakers with **4 — 16 ohm** impedance.

CASE 2 When you connect two set of front speakers



Use front speakers with **8 — 16 ohm** impedance.

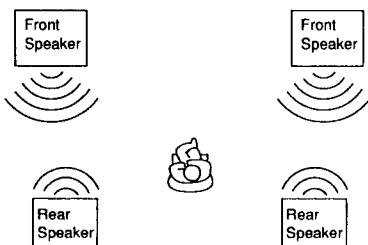
CASE 3 When you connect front speakers and a center speaker



Use the following speakers;

- Front speakers: **8 — 16 ohm** impedance
- Center speaker: **8 — 16 ohm** impedance

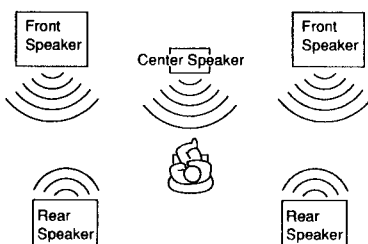
CASE 4 When you connect front and rear speakers



Use the following speakers;

- Front speakers: **8 — 16 ohm** impedance
- Rear speakers: **8 — 16 ohm** impedance

CASE 5 When you connect fronts, rear speakers and a center speaker



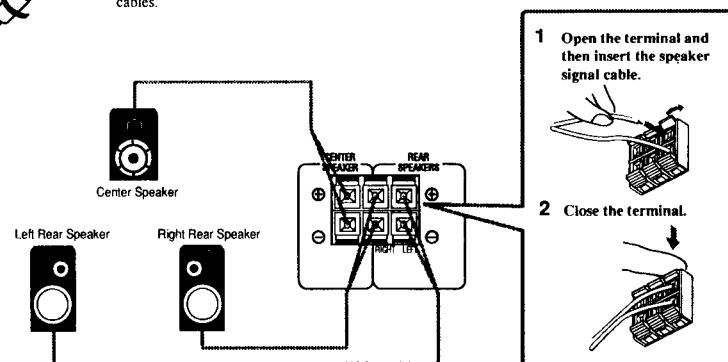
Use the following speakers;

- Front speakers: **8 — 16 ohm** impedance
- Rear speakers: **8 — 16 ohm** impedance
- Center speaker: **8 — 16 ohm** impedance

Connecting the rear and center speakers



Twist and remove the insulation at the end of each speaker signal cable first, and then, connect rear speakers to the **REAR SPEAKERS** terminals and a center speaker to the **CENTER SPEAKER** terminals by using the cables.



1 Open the terminal and then insert the speaker signal cable.

2 Close the terminal.

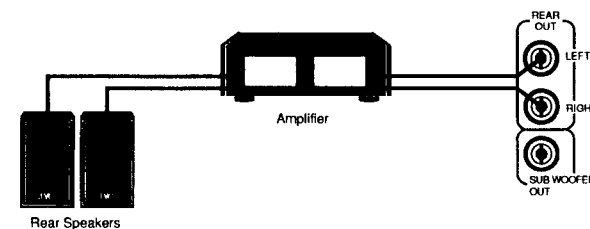
Note:

When you connect rear speakers, make sure that both left and right speakers are connected; otherwise, no sound will come out of the rear speakers.

Increasing the power for the rear speakers

You can use a separate power amplifier to reinforce sounds through the rear speakers.

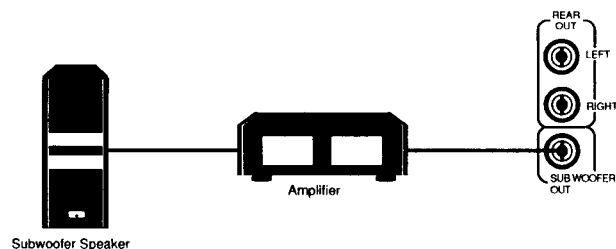
- 1 Connect the input jacks of the power amplifier to the **REAR OUT** jacks on the rear panel.
- 2 Connect the rear speakers to the speaker terminals of the power amplifier.



Enhancing the bass

You can enhance the bass by connecting a subwoofer.
To connect a subwoofer, you also need a separate power amplifier.

- 1 Connect the input jack of the power amplifier to the SUB WOOFER OUT jack on the rear panel.
- 2 Connect a subwoofer speaker to the speaker terminal of the power amplifier.



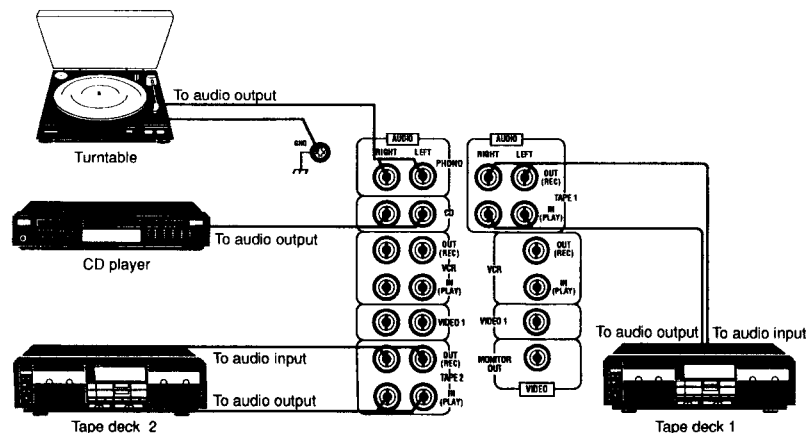
Connecting Audio/Video Components

You can connect the following components to the RX-816RBK using cables with RCA pin plugs.

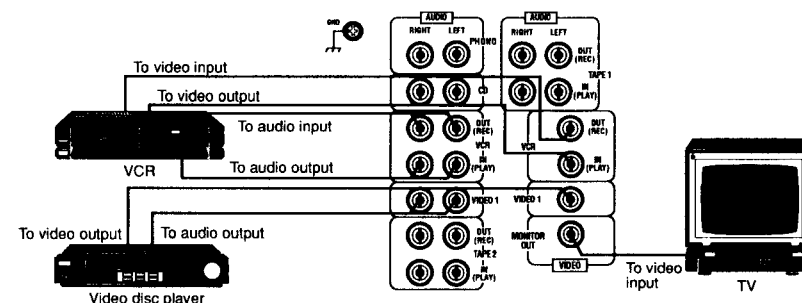
Notes:

- Both plugs and jacks are color-coded; the red ones are for right audio signals, the white ones for left audio signals, and yellow ones for video signals.
- Any turntables incorporating a small-output cartridge such as an MC (moving-coil type) must be connected to this unit through a commercial head amplifier or step-up transformer. Direct connection may result in insufficient volume.
- If an earth cable is provided for your turntable, connect the cable to the screw marked GND on the rear panel.

Audio component connections

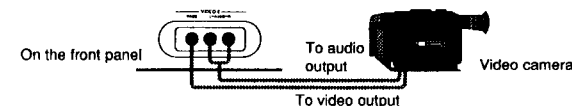


Video component connections



For connecting a video camera

You can use the VIDEO 2 jacks on the front panel, since this jacks are convenient for connecting and disconnecting the component frequently.



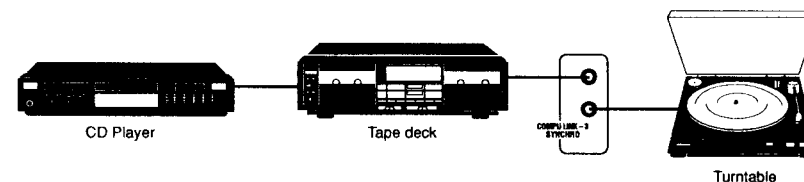
Connecting Audio Components for the COMPU LINK-3 Remote Control System

The COMPU LINK-3 remote control system allows you to control other JVC audio components from the RX-816RBK or vice versa. To use this system, connect your JVC audio components and the RX-816RBK with the cable (monaural mini-plug) supplied with those components.

If your audio component has two COMPU LINK-3 SYNCHRO jacks, you can use either one. If it has only one COMPU LINK-3 SYNCHRO jack, connect it so that it is the last item in the series of components. (For example, the turntable in the diagram below)

Notes:

- The COMPU LINK-3 remote control system is the upgraded version of the COMPU LINK-1 and COMPU LINK-2. Even if your component has the COMPU LINK-1 or COMPU LINK-2 jacks, you can still connect it in the COMPU LINK-3 remote control system, but some functions may not work correctly.
- For more information about the COMPU LINK-3 (-1 and -2) remote control system, see page 38.



CAUTION:

The COMPU LINK-3 remote control system cannot control the cassette deck connected to the TAPE 2 jacks. Use only the cassette deck connected to the TAPE 1 jacks.

Power Supply through the RX-816RBK to a Connected Component

You can use the AC outlet on the rear of the RX-816RBK to supply power to an audio component. This AC outlet is "switched" outlet. So when the RX-816RBK is off (that is, in standby mode), power is not supplied through this outlet. By turning the RX-816RBK on and off, you can turn the connected component on and off at the same time.

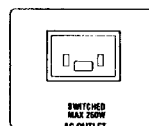
Note:

Do not use the AC outlet on the rear of the RX-816RBK to supply power to the component in the COMPU LINK remote control system; otherwise, the COMPU LINK remote control system may not work correctly.

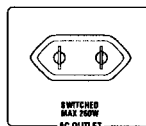
CAUTION:

Do not plug the component to the AC outlet on the rear if the maximum power consumption is greater than indicated by the AC outlet.

For the U.K. model



For the model for the other countries



Connecting the Power Cord

Before plugging the RX-816RBK into an AC outlet, make sure that all connections have been made. When the power cord is connected, the STANDBY indicator above the POWER button lights up.

Keep the power cord away from the connecting cables for the TV, VCR, and antenna. The power cord may cause noise or screen interference. We recommend that you use a coaxial cable to connect the antenna, since it is well-shielded against interference.

Notes:

- A small amount of power is always consumed even in standby mode. To switch off the power completely, unplug the power cord from the AC outlet.
- If the power cord is unplugged or a power failure occurs, preset settings will be erased in a few days.

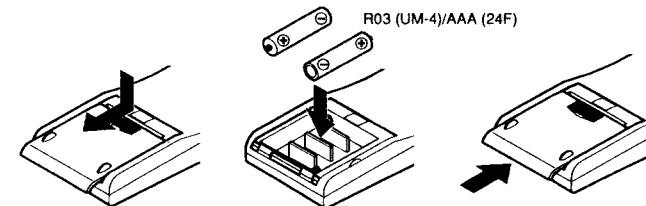
CAUTIONS:

- Do not touch the power cord with wet hands.
- Do not pull on the power cord to unplug the unit. When unplugging the unit, always grasp the plug itself so as not to damage the cord.

Putting Batteries in the Remote

Before using the Remote, put two supplied batteries first. When using the Remote, aim the Remote directly at the remote sensor on the RX-816RBK.

1. On the back of the Remote, press down on the battery cover and slide it out.
2. Insert batteries. Make sure to observe the proper polarity: (+) to (+) and (-) to (-).
3. Slide the cover in.



If the range or effectiveness of the Remote decreases, replace the batteries. Use two R03 (UM-4)/AAA (24F) type dry-cell batteries.

CAUTION:

When replacing the batteries, finish it without delay; otherwise, the stored signals are all erased. (See pages 33 -37.)

CAUTIONS:

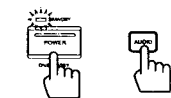
Follow these precautions to avoid leaking or cracking cells:

- Place batteries in the Remote so they match the polarity indicated: (+) to (+) and (-) to (-).
- Use the correct type of batteries. Batteries that look similar may differ in voltage.
- Always replace both batteries at the same time.
- Do not expose batteries to heat or flame.

Basic Operations

The following operations are commonly used when you play any sound source.

Turning the Power On and Off



Front panel



Remote:
Outside

To turn on the power, press the POWER button on the front panel or the AUDIO button on the POWER section of the Remote.
The STANDBY indicator goes off.

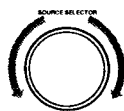
To turn off the power, press the POWER button or the AUDIO button on the POWER section of the Remote again.
The STANDBY indicator lights up.

Selecting the Source to Play

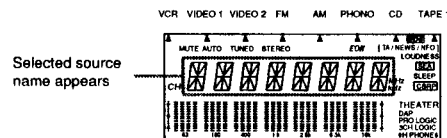
You need to select the source to listen before you start playing any source.

On the front panel:

Turn the SOURCE SELECTOR so that the desired source name appears on the display (at the same time the arrow (▲) on the display points the source).



Front panel



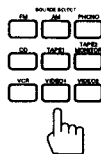
VCR	View the video component connected to the VCR jacks.
VIDEO 1	View the video component connected to the VIDEO 1 jacks.
VIDEO 2	View the video component connected to the VIDEO 2 jacks.
FM	Listen to an FM broadcast.
AM	Listen to an AM (MW/LW) broadcast.
PHONO	Listen to a record.
CD	Listen to the CD player.
TAPE 1	Listen to the cassette deck connected to the TAPE 1 jacks.

To listen to the cassette deck connected to the TAPE 2 jacks, press the TAPE 2 MONITOR button so that the TAPE 2 MONITOR indicator lights up on the front panel ("ON" appears on the display). However, do not press the TAPE 2 MONITOR button if no component is connected to the TAPE 2 jacks; otherwise, no sound comes out of the speakers.

From the Remote:

Press the desired source selecting buttons on the SOURCE SELECT section.

VCR	View the video component connected to the VCR jacks.
VIDEO 1	View the video component connected to the VIDEO 1 jacks.
VIDEO 2	View the video component connected to the VIDEO 2 jacks.
FM*	Listen to an FM broadcast.
AM*	Listen to an AM (MW/LW) broadcast.
PHONO*	Listen to a record.
CD*	Listen to the CD player.
TAPE 1*	Listen to the cassette deck connected to the TAPE 1 jacks.
TAPE 2 MONITOR	Listen to the cassette deck connected to the TAPE 2 jacks.



Remote: Outside

Notes:

- The TAPE 2 MONITOR button has a different function from other source selecting buttons, since this button allows you to monitor the recording. For more details, see "Recording Monitor" on page 29.
- When you press one of the source selecting buttons marked above with an asterisk (*), the RX-816RBK automatically turns on.

Selecting the Front Speakers



Front panel

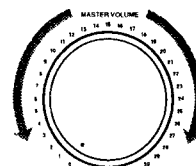
When you have connected two sets of front speakers, you can select which to use. Pressing in the SPEAKERS 1 or SPEAKERS 2 button activates the respective set of speakers.

To use the set of speakers connected to the FRONT SPEAKERS ① terminals, press in the SPEAKERS 1 button (▲ON), and press out the SPEAKERS 2 button (■OFF).

To use the set of speakers connected to the FRONT SPEAKERS ② terminals, press in the SPEAKERS 2 button (▲ON), and press out the SPEAKERS 1 button (■OFF).

To use both sets of speakers, press in both the SPEAKERS 1 and 2 buttons (▲ON).
To use neither set of speakers, press out both the SPEAKERS 1 and 2 buttons (■OFF).

Adjusting the Volume



Front panel



Remote: Outside

On the front panel:

To increase the volume, turn the MASTER VOLUME control clockwise.
To decrease the volume, turn it counterclockwise.

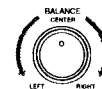
From the Remote:

To increase the volume, press the VOLUME + button.
To decrease the volume, press the VOLUME - button.

CAUTION:

Always set the MASTER VOLUME control to the minimum before starting any source. If the MASTER VOLUME control is left turned up, the sudden blast of sound energy can permanently damage your hearing and/or ruin your speakers.

Adjusting the Front Speaker Output Balance



Front panel

If the sounds you hear from the right and left front speakers are unequal, you can adjust the speaker output balance with the BALANCE control.

To decrease the left channel sound, turn the BALANCE control clockwise.
To decrease the right channel sound, turn it counterclockwise.

Listening at Low Volume (Loudness)



Front panel

Human ears are not sensitive to bass at low volume. To compensate for this, the loudness function automatically boosts the bass level as you lower the volume.

To use the loudness function, press the LOUDNESS button on the front panel. The LOUDNESS indicator lights up on the display.

To turn the function off, press the LOUDNESS button again. The LOUDNESS indicator goes off.

Recording a Source

You can record any source playing through the RX-816RBK to the cassette decks connected to the TAPE 1 and TAPE 2 jacks, and the VCR connected to the VCR jacks at the same time. While recording, you can listen to the selected sound source at whatever sound level you like, without affecting the sound levels of the recording.

Notes:

- When recording from the cassette deck connected to the TAPE 2 jacks to the one connected to TAPE 1, press TAPE 2 MONITOR button and select a source other than TAPE 1.
- The output volume level, preset SEA modes and surround effects will not affect the recording.
- See also "Recording Monitor" on page 29.

Listening with Headphones

A standard pair of headphones can be connected to the PHONES jack on the front panel. Be sure to turn down the volume before connecting or putting on headphones, as high volume can damage both the headphones and your hearing.

To listen with only headphones

Press out both the SPEAKERS 1 and 2 buttons (■OFF).

Muting the Sound



Remote: Outside

You can easily turn off the volume by pressing the FADE MUTING button on the Remote.

To mute the sound through all speakers and headphones connected

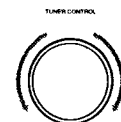
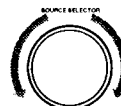
Press the FADE MUTING button so that "MUTING" appears on the display and the MASTER VOLUME control turns down.

To cancel the mute, press the VOLUME + button (or the VOLUME - button) on the Remote.

Receiving Radio Broadcasts

You can browse through all the stations or use the preset function to go immediately to a particular station.

Tuning in Stations Manually



1. Select the band.

On the front panel:

Turn the SOURCE SELECTOR.

From the Remote:

Press the FM button or the AM button so that the last received station is tuned in.

Note:

If you do not see a preset channel number on the display, the RX-816RBK is already in the manual tuning mode, so skip Step 2 below.

2. Press the PRESET/TUNING button to set the tuning mode to the manual mode.

3. Turn the TUNER CONTROL clockwise or counterclockwise.

Turning it clockwise increases the frequency.

Turning it counterclockwise decreases the frequency.

Notes:

- When you turn the TUNER CONTROL fast, the frequency keeps changing until you turn the TUNER CONTROL again or a station is tuned in.
- When a station of sufficient signal strength is tuned in, the TUNED indicator lights up on the display.
- When an FM stereo program is received, the STEREO indicator also lights up.

Using the Preset Tuning

Once a station is assigned to a channel number, the station can be quickly tuned. You can preset up to 40 stations, either AM (MW/LW), FM, or a mixture of both, at random.

Storing the preset stations



TUNER CONTROL



On the front panel:

1. Tune in the station you want to preset (see above).

2. Press the ENTER button.

"CH:" appears on the display for 5 seconds.

3. Turn the TUNER CONTROL to select a channel number within the 5 seconds.

You can also use the Remote to select a channel number. To use the Remote, see page 30.

4. Press the ENTER button again while the selected channel number is flashing on the display.

The selected channel number stops flashing, and the station is assigned to the selected channel number.

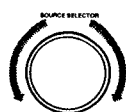
To cancel a stored preset station

Storing a new station on a used number erases the previously stored one.

CAUTION:

Preset stations may be erased when power is cut off to the RX-816RBK, as when it is unplugged from the AC outlet or a power failure occurs. If the preset stations are lost, simply set the stations again using the above procedure.

Tuning in a Preset Station



TUNER CONTROL



On the front panel:

1. Turn the **SOURCE SELECTOR** to select either FM or AM.
The last received station of the selected band is tuned in.

Note:

If you see a preset channel number on the display, the RX-816RBK is already in the preset tuning mode, so skip Step 2 below.

2. Press the **PRESET/TUNING** button to set the tuning mode to the preset mode.
3. Turn the **TUNER CONTROL** to select a preset channel number.
Turning it clockwise changes preset channels in increasing order.
Turning it counterclockwise changes preset channels in decreasing order.

From the Remote:

1. Press the **FM** button or the **AM** button.
The last received station of the selected band is tuned in.
2. Press the **upper or lower cursor button** on the outside panel to select a preset channel number (see page 30).
You can also use the **PRESET CHANNEL +/-** buttons on the inside panel.

To select a preset channel number directly, press the 10 keys on the inside panel.

Examples: For channel number 5, press 5. For channel number 15, press +10 then 5.
For channel number 20, press +10 then 10.

Note:

When you use the Remote, be sure that the Remote are activated for tuner, not for the CD and others.
(See page 30.)

Selecting the FM Reception Mode

You can change the FM reception mode so that reception will be improved.



When an FM stereo broadcast is hard to receive or noisy

Press the **FM MODE/MUTE** button on the front panel. The **MUTE AUTO** indicator goes off on the display. Reception will be improved although you will lose the stereo effect. In this mode, you will hear noise while tuning into the stations.

To restore stereo effect

Press the **FM MODE/MUTE** button again so that the **MUTE AUTO** indicator lights up on the display. In this mode, when a program is broadcast in stereo, you will hear stereo sound; when in monaural, you will hear monaural sounds. This mode is also useful to suppress static noise between stations.

Using the RDS (Radio Data System) to Receive FM Stations



RDS allows FM stations to send additional signals along with their regular program signals. For example, the stations send their station names, and information about what type of program they broadcast, such as sports or music, etc.

When tuned to an FM station which provides the RDS service, the RDS indicator lights up. With the RX-816RBK, you can receive the following types of RDS signals.

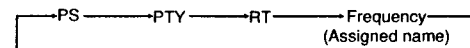
- PS (Program Service):** shows station names commonly known
- PTY (Program Type):** shows types of broadcast programs
- RT (Radio Text):** shows text messages the station sends
- TA (Traffic Announcement):** shows traffic announcement is being broadcast

What information can RDS signals provide?

You can see the RDS signals the station sends on the display.

To show the RDS signals on the display:

1. Open the outside panel of the Remote and press the **TUNER** button on the **CONTROL** section.
2. Press the **DISPLAY MODE** button while listening to an FM station.
Each time you press the button, the display changes to show you the following information:



PS (Program Service):

While searching, "PS" appears and then the station names will be displayed. "NO PS" appears if no signal is sent.

PTY (Program Type):

While searching, "PTY" appears and then the type of the broadcast program will be displayed. "NO PTY" appears if no signal is sent.

RT (Radio Text):

While searching, "RT" appears and then text messages the station sends will be displayed. "NO RT" appears if no signal is sent.

Station Frequency or assigned name (non-RDS service):

Station frequency or assigned name (see page 21)

Notes:

- If searching finishes at once, "PS", "PTY", and "RT" will not appear on the display.
- RDS is not available in AM (MW/LW) broadcasts.

On characters displayed

When the display shows PS, PTY, or RT signals, the following characters are used.

- The display cannot differentiate upper case and lower case letters and always uses upper case letters.
- The display cannot show accented letters; therefore, "A", for instance, may stand for accented "A's" like "Ä, Å, Ä, Å, and Ä."

A	A, Ä, Å, Ä, Å, Ä, Å	K	K	U	U, Ü, Ü, Ü, Ü	0	0	*	*	/	<
B	B	L	L	V	V	1	1	+	+	/	>
C	C, Ç, Ç	M	M	W	W	2	2	-	-	=	"
D	D, ð	N	N, Ñ	X	X	3	3	,	,	\	\
E	E, É, É, É, É	O	O, Ö, Ö, Ö, Ö, Ö	Y	Y	4	4	.	.	'	'
F	F	P	P	Z	Z, 2, 2	5	5	/	/	//	//
G	G	Q	Q			6	6	-	-		
H	H	R	R, Ä, Ä			7	7	-	-		
I	I, I, I, I, I	S	S, S, S			8	8	-	-		
J	J	T	T			9	9	/	/		

To search the program by PTY codes

One of the advantages of the RDS service is that you can locate a particular kind of program by specifying the PTY codes.

On the front panel:

1. Press the **PTY SEARCH** button while listening to an FM station.
The display alternates between "PTY" and "SELECT."
2. Turn the **TUNER CONTROL** clockwise or counterclockwise to select a PTY code.
The display gives you the PTY codes described below.
3. Press the **PTY SEARCH** button again.
While searching, the display alternates between "SEARCH" and the selected PTY code.
The RX-816RBK searches 40 preset channels, stops when it finds the one you have selected, and tunes in that station.

On the Remote:

1. Open the outside panel of the Remote and press the **TUNER** button on the **CONTROL** section.
2. Press the **PTY SEARCH** button while listening to an FM station.
The display alternates between "PTY" and "SELECT."
3. Turn the **PTY SELECT +** button or the **PTY SELECT -** button to select a PTY code.
The display gives you the PTY codes described below.
4. Press the **PTY SEARCH** button again.
While searching, the display alternates between "SEARCH" and the selected PTY code.
The RX-816RBK searches 40 preset channels, stops when it finds the one you have selected, and tunes in that station.

To continue searching after the first stop, press the **PTY SEARCH** button again while the indications on the display blink.

If no program is found, "NOT FOUND" appears on the display.

To stop searching any time during the process

Using the tuner operating buttons (except the **PTY SELECT +** button or the **PTY SELECT -** button on the Remote) and controls will stop searching.

Descriptions of the PTY codes

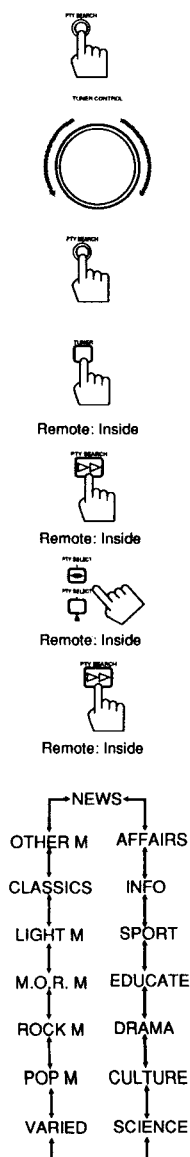
NEWS:	News
AFFAIRS:	Topical program expanding on the current news or affairs
INFO:	Programs on medical service, weather forecast, etc.
SPORT:	Sports events
EDUCATE:	Educational programs
DRAMA:	Radio plays
CULTURE:	Programs on national or regional culture
SCIENCE:	Programs on natural sciences and technology
VARIED:	Other programs like comedies or ceremonies
POP M:	Pop music
ROCK M:	Rock music
M.O.R. M:	Middle-of-the-road music (usually called "easy listening")
LIGHT M:	Light music
CLASSICS:	Classics
OTHER M:	Other music
NONE:	Undefined (this cannot be searched.)

When an emergency broadcast (ALARM signal) is sent from an FM station

The RX-816RBK automatically switches the source to FM and tunes in the station except in the following cases:

- When you are listening to non-RDS stations (all AM (MW/LW) and some FM stations).
- When the power to the RX-816RBK is turned off.

While receiving an emergency broadcast, "ALARM" appears on the display.



To switch to a broadcast program of your choice temporarily

Another convenient RDS service is called "EON (Enhanced Other Network)."

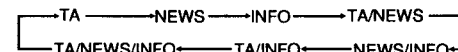
This allows the RX-816RBK to switch temporarily to a broadcast program of your choice from other sources *except the following cases*:

- When you are listening to a non-RDS station (all AM (MW/LW) stations and some FM stations)
- When the last received FM station is a non-RDS station.

To select the program type

Press the **TA/NEWS/INFO** button on the front panel.

Each time you press the button, the display changes to show the following:

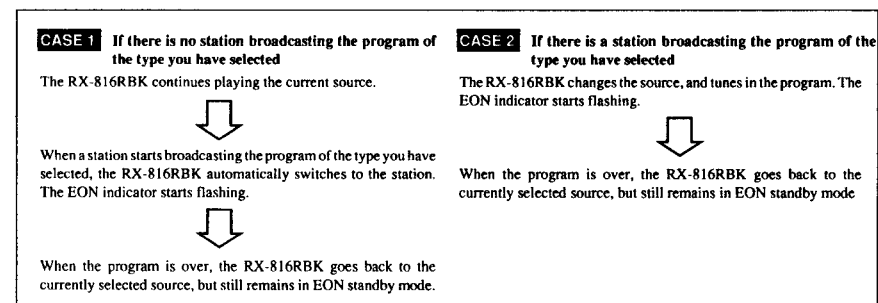


TA: Traffic Announcement
NEWS: News
INFO: Programs on medical service, weather forecast, etc.

To use the EON function

Press the **EON** button on the front panel.

The **EON** indicator lights up on the display, and the RX-816RBK enters **EON** standby mode.



To stop listening to the program selected by EON

Press the **EON** button again so that the **EON** indicator goes off on the display. The RX-816RBK enters **EON** off mode and goes back to the currently selected source.

Each time you press the button, the **EON** mode alternates between standby mode and off mode.

Notes:

- In **EON** standby mode, if you change the source to AM or if you carry out synchronized recording (see page 38), **EON** standby mode is canceled temporarily. The RX-816RBK goes back to **EON** standby mode again when you have finished that operation.
- While listening to a program tuned in by the **EON** function, you can only use the **POWER**, **EON**, and **DISPLAY MODE** buttons.
- When the RX-816RBK is turned off, the **EON** function is also turned off.

CAUTION:

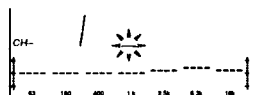
When the source alternates intermittently between the station tuned in by the **EON** function and the currently selected source, press the **EON** button to cancel the **EON** function (the **EON** indicator goes off on the display). This is not the malfunction of the RX-816RBK.

Assigning Names to Preset Stations

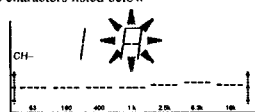
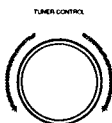
You can assign a name of up to four characters to each preset station (from channel number 1 to 20). When a preset station is tuned in, its assigned name will appear on the display.

On the front panel only:

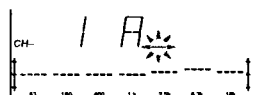
1. Tune in a preset station (channel number 1 to 20).
See page 17 for details.
2. Press the CHARACTER button.
The cursor appears at the first character position.



3. Turn the TUNER CONTROL to select the first character.
You can use characters listed below



4. When the character you want appears, press the CHARACTER button.
The cursor moves to the next character position.

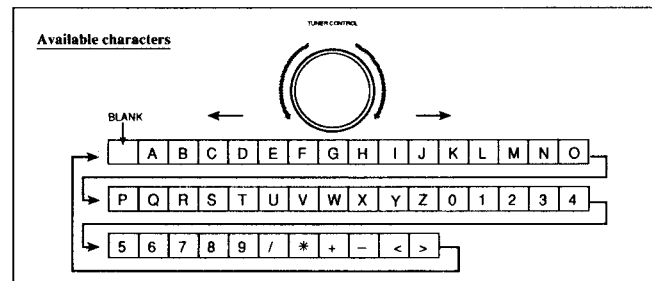


5. Repeat Steps 3 and 4 to enter up to four characters.
6. Press the ENTER button after you have assigned a name.



To erase the input characters

Insert blanks using the same procedure described above.

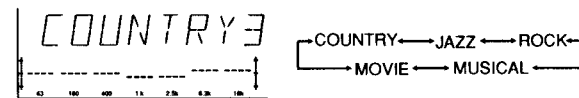
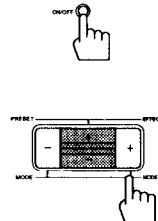


Using the Preset SEA Modes

The RX-816RBK has five preset SEA (Sound Effect Amplifier) modes (COUNTRY, JAZZ, ROCK, MUSICAL, and MOVIE) which give you control of the way your music sounds, so you can create it for your room and for the quality of the source.

On the front panel:

1. Press the ON/OFF button under the PRESET SEA indicator so that the SEA indicator lights up on the display.
Now the previously selected preset SEA mode comes into effect.
2. Press the left or right cursor button (+/-) to select a preset SEA mode.
Pressing the button changes the preset SEA modes in the following sequence:

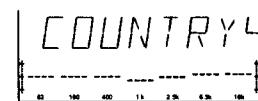
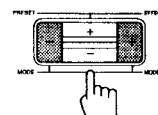


COUNTRY: Enhances the high-frequency range so that instruments such as violin and banjo sound outstanding.
JAZZ: Gives a feeling of a live atmosphere. Good for acoustic music.
ROCK: Gives a heavy sound. Both high and low frequencies are boosted.
MUSICAL: Enhance the mid-frequency range which human voice is mostly made up of.
MOVIE: Adds breath to sounds so you feel like you are in a movie theater.

Note:

When using the cursor buttons on the front panel, make sure that the PRESET SEA indicator on the front panel is turned on. If not, press the CURSOR MODE button once so that the cursor buttons can be used for selecting a preset SEA mode and its level.

3. Press the upper or lower cursor button (+/-) to select the level (from 1 to 5) of the preset SEA mode selected in above step.
Pressing the upper cursor button (+) increases the SEA preset level.
Pressing the lower cursor button (-) decreases the SEA preset level.



From the Remote:

1. Press the SEA ON/OFF button so that the SEA indicator lights up on the display.
Now the previously selected preset SEA mode comes into effect.
2. Press the SEA MODE button repeatedly.
Each time you press the button, the preset SEA modes changes.
3. Press the SEA PRESET button repeatedly.
Each time you press the button, the SEA preset level changes.

To flatten the equalizing curve while using the preset SEA modes

Press the FLAT button on the front panel so that "SEA FLAT" appears on the display.

To compare the original sound and the sound processed by using the preset SEA modes

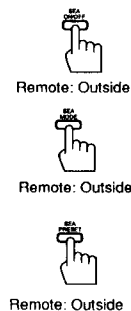
Press the ON/OFF button on the front panel for the preset SEA modes repeatedly. (When using the Remote, press the SEA ON/OFF button.)

- While the SEA indicator is turned on, you can listen to the processed sound.
- While the SEA indicator is turned off, you can listen to the original sound.

To see the actual sound output level on the display (Spectrum Peak Indicator mode)

Press the SPI/SEA button on the front panel so that the actual sound output level can be shown in 7 frequency ranges on the display.

To cancel it, press the button again.



Using the Digital Surround Processor

The built-in digital surround processor provides two groups of programs -- DAP (Digital Acoustic Processor) modes and surround modes (Dolby Surround* and JVC Theater Surround). You cannot use these DAP modes and surround modes at the same time.

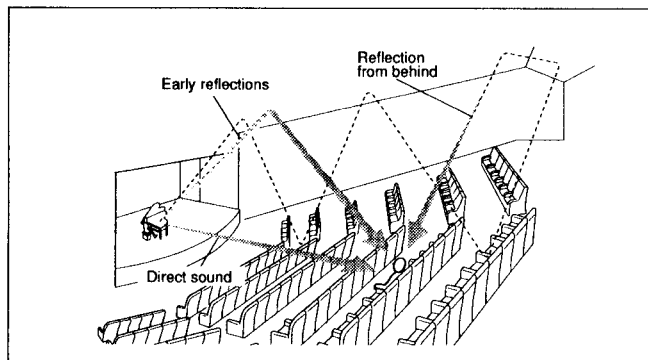
Notes:

- The digital surround processor has no effect on monaural sources.
- The digital surround processor cannot be used for recording.

* Manufactured under license from Dolby Laboratories Licensing Corporation.
DOLBY and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

What can the digital surround processor do?

The sound heard in a concert hall or a movie theater consists of direct sound and indirect sound: early reflections and reflection from behind. The reflected sounds are always delayed by the distances of the ceiling and walls from the listener. These reflections are some of the most important elements of the acoustic surround. So, what the digital surround processor does is to reproduce these elements in your listening room.



Using the DAP Modes

You need to connect the front and rear speakers to enjoy the DAP modes -- HALL, L(live) CLUB, PAVILION, D(dance) CLUB. By using these modes, the sound field can be enlarged to give a more realistic sound. The DAP modes do not require the center speaker.

When you use these four modes, you can adjust the output level of the rear speaker and the effect depth. Once you have adjusted these, the RX-816RBK memorizes the setting for each mode.

Among the DAP modes, H PHONES (headphones) is very special and newly developed by JVC. It can create the same stereo sound as you can listen from the speakers in air. So, when you listen to a source using headphones, you can feel as if you were not using headphones.

1. Set the DAP mode on.

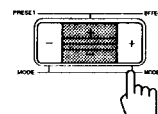
Press the DAP ON/OFF button so that the DAP indicator lights up on the display. When you have selected H PHONES (headphones) previously, the **H.PHONE** indicator also lights up on the display.



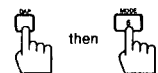
Front panel



Remote: Outside



Front panel



Remote: Inside

2. Select the mode you want.

On the front panel:

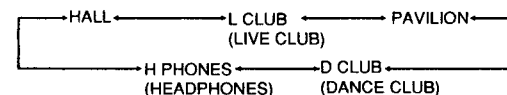
Press the left or right cursor button (+/-) repeatedly until the mode you want appears on the display.

From the Remote:

2-1 Open the outside panel and press the DAP button on the CONTROL section.

2-2 Press the MODE button until the mode you want appears on the display.

Each time you press the button, the DAP modes change as follows (when using the button on the Remote, it changes only rightward):



HALL: Gives clear vocal and the feeling of a concert hall.

L CLUB: Gives the feeling of a live music club with the low ceiling.

PAVILION: Gives the spacious feeling of a pavilion with the high ceiling.

D CLUB: Gives a throbbing bass beat.

H PHONES: Gives a spacious stereo effect when listening with headphones.

Note:

When using the cursor buttons on the front panel, make sure that the DAP/SURROUND indicator is turned on. If not, press the CURSOR MODE button once so that the cursor buttons can be used for selecting the DAP modes.

3. Set the output levels of the rear speakers.

From the Remote only:

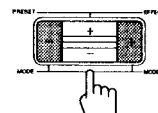
Press the REAR + button or REAR - button to set the sound level of the rear speakers.

Note:

When you have selected H PHONES (headphones) in Step 2 above, you cannot set the output levels of the rear speakers.



Remote: At bottom



Front panel



Remote: Inside

4. Select the effect depth among 5 preset levels.

On the front panel:

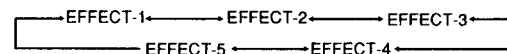
Press the upper or lower cursor button (+/-) repeatedly.

To increase the effect depth, press the upper cursor button (+), and to decrease it press the lower cursor button (-).

From the Remote:

Press the EFFECT button repeatedly. Selecting the higher number makes the effect deeper.

Each time you press the button, the effect depth changes as follows (when using the button on the Remote, it changes only rightward):



Note:

When you have selected H PHONES (headphones) in Step 2 above, you cannot select the effect depth.

Using the Surround Modes

You can enjoy two types of surround modes — Dolby Surround and JVC's Theater Surround.

On Dolby Surround

The Dolby Surround has been also developed to reproduce the important elements of the acoustic surround at home.

To watch the soundtracks of video software bearing the mark  which includes the same encoded surround information as found in Dolby Stereo films, the RX-816RBK can provide you with 2 Dolby Surround modes (Dolby Pro Logic and Dolby 3ch Logic).

Dolby Pro Logic: Select this mode when optional rear speakers are connected.

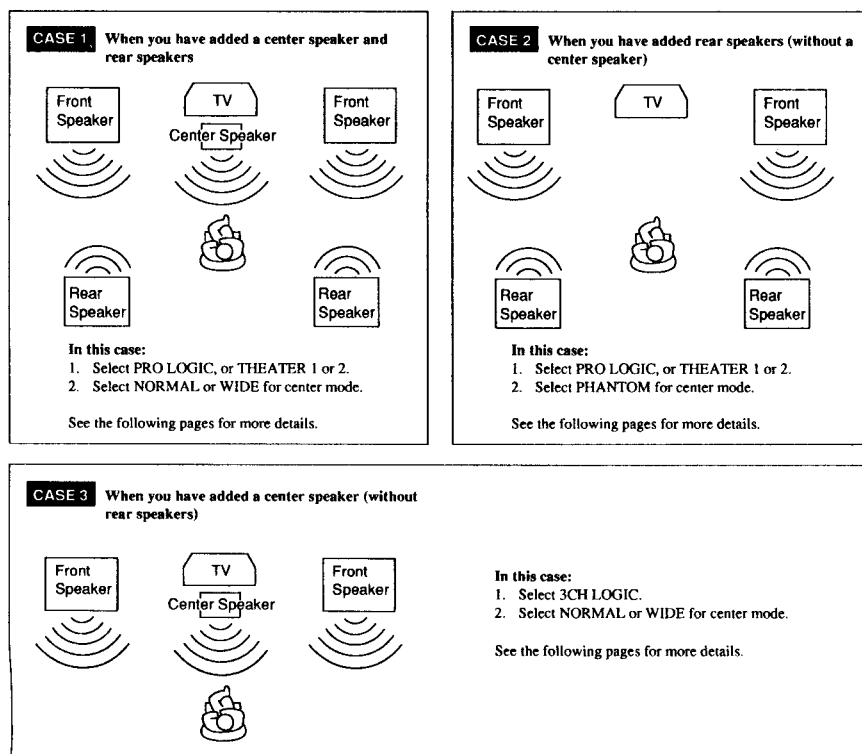
Dolby 3ch Logic: Select this mode when a center speaker is connected without rear speakers.

On JVC's Theater (1 and 2) Surround

In order to reproduce a more realistic sound field in your listening room while playing soundtracks of video software bearing the mark , JVC's Theater Surround has been designed to give you clearer vocals and to create the feeling of being there. The sound is reproduced through the front speakers, rear speakers, and center speaker.

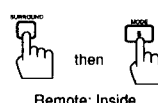
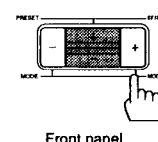
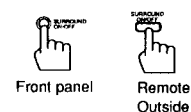
Speaker arrangements for surround modes

The following illustrations show how to obtain the optimum sound environment for various surround settings. Try to find the speaker direction and location to create the optimum sound field.



Preparing for the surround modes

The RX-816RBK memorizes surround adjustments for each mode.



1. Set the surround mode on.
Press the SURROUND ON/OFF button so that one of the surround mode indicators (THEATER, PRO LOGIC, or 3CH LOGIC) lights up on the display.

2. Select the mode you want.

On the front panel:

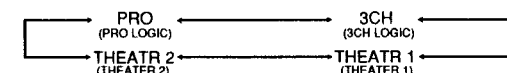
Press the left or right cursor button (+/-) repeatedly until the mode you want appears on the display.

From the Remote:

2-1 Open the outside panel and press the SURROUND button on the CONTROL section.

2-2 Press the MODE button repeatedly until the mode you want appears on the display.

Each time you press the button, the surround modes change as follows (when using the button on the Remote, it changes only rightward):



PRO LOGIC: Use this mode to watch a video tape with Dolby Surround when you have connected the rear speakers.

3CH LOGIC: Use this mode to watch a video tape with Dolby Surround when you have connected a center speaker and no rear speakers.

THEATER 1: Use this mode to watch a video tape with Dolby Surround when you have connected the rear speakers.

This mode gives you the feeling of a small movie theater with a seating capacity of 100.

THEATER 2: Use this mode to watch a video tape with Dolby Surround when you have connected the rear speakers.

This mode gives you the feeling of a large movie theater with a seating capacity of 1000.

Note:

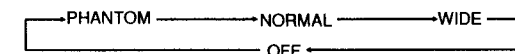
When using the cursor buttons on the front panel, make sure that the DAP/SURROUND indicator is turned on. If not, press the CURSOR MODE button once so that the cursor buttons can be used for selecting the surround modes.

3. Set the center mode.

On the front panel only:

Press the CENTER MODE button.

Each time you press the CENTER MODE button, the mode changes as follows.



PHANTOM: Select this mode when you have not connected a center speaker.

NORMAL: Select this mode when the size of the center speaker is smaller than that of the front speakers.

WIDE: Select this mode when the size of the center speaker is the same as that of the front speakers.

OFF: Select this mode to shut off the output of the center channel signal.

Note:

When you have selected 3CH LOGIC in Step 2 above, you cannot select PHANTOM.



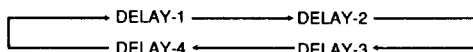
Remote: Inside

4. Set the delay time of the delayed sound.

From the Remote only:

Press the DELAY button.

Each time you press the button, the delay time changes among 4 levels.



DELAY-1: When your distance to your rear speakers is greater than that to the front speakers.
 DELAY-2: When your distance to your rear speakers is almost equal to that to the front speakers.
 DELAY-3: When your distance to your rear speakers is a little less than that to the front speakers.
 DELAY-4: When your distance to your rear speakers is much less than that to the front speakers.

Note:

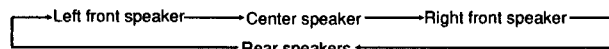
When you have selected 3CH LOGIC in Step 2 above, you cannot adjust the delay time.

5. Start checking speaker output balance.

From the Remote only:

Press the TEST button.

When you press the button, "TEST" starts flashing and a test tone comes out of speakers in the following order:



Remote: Inside



Remote: Inside



Remote: At bottom

6. Set the output levels of the center and the rear speakers.

From the Remote only:

Press the CENTER + button or the CENTER - button to set the sound level of the center speaker.
 Press the REAR + button or the REAR - button to set the sound level of the rear speakers.

Notes:

- You can adjust these levels in 1 dB step within the range of ± 10 dB. The sound levels of the left and right rear speakers will be the same.
- You cannot set the sound level of the rear speakers when you have selected 3CH LOGIC.
- You cannot set the sound level of the center speaker when you select PHANTOM or OFF for center mode.

7. Finish checking speaker output balance.

From the Remote only:

Press the TEST button again.

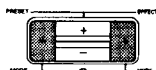
The test tone stops.

Note:

When you use the SOURCE SELECTOR, the test tone also stops.



Remote: Inside



Front panel



Remote: Inside

8. Select the effect depth among 5 preset levels only for JVC's Theater Surround.

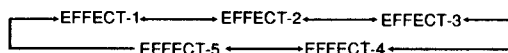
On the front panel:

Press the upper or lower cursor button (+/-) repeatedly.

To increase the effect depth, press the upper cursor button (+), and to decrease it press the lower cursor button (-).

From the Remote:

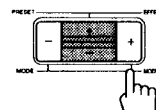
Press the EFFECT button repeatedly. Selecting the higher number makes the effect deeper.
 Each time you press the button, the effect depth changes as follows (when using the button on the Remote, it changes only rightward):



Note:

When you have selected Dolby Surround modes in Step 2 above, you cannot select the effect depth.

Enjoying the surround modes



Remote: Outside



Remote: Inside



Remote: Inside

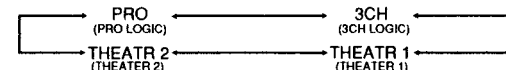
Once you have set the surround adjustments you can use the same adjustments every time you want to enjoy the surround you want.

On the front panel:

1. Press the SURROUND ON/OFF button so that one of the surround mode indicators lights up on the display.

2. Press the left or right cursor button (+/-) repeatedly until the surround mode indicator you want lights up.

Each time you press the button, the display changes to show the following:



Note:

When using the cursor buttons on the front panel, make sure that the DAP/SURROUND indicator is turned on. If not, press the CURSOR MODE button once so that the cursor buttons can be used for selecting the surround modes.

3. Play a sound source which was processed with Dolby Surround and is labeled with mark.

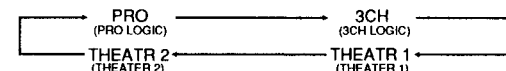
To cancel the surround, press the SURROUND ON/OFF button again.

From the Remote:

1. Press the SURROUND ON/OFF button so that one of the surround mode indicator lights up on the display.

2. Open the outside panel and press the SURROUND button on the CONTROL section.
 Now you can use the Remote for selecting the surround modes.

3. Press the MODE button repeatedly until the surround mode indicators you want lights up.
 Each time you press the button, the display changes to show the following:



4. Play a sound source which was processed with Dolby Surround and is labeled with mark.

To cancel the surround, press the SURROUND ON/OFF button again.

To make dialogues in movies softer or clearer



By using the CENTER TONE control you can adjust the level of mid-frequency range, which the human voice is mostly made up of.

To make dialogues clearer, turn the control toward SHARP.

To make them softer, turn the control toward SOFT.

When set to the FLAT position, no adjustment is applied.

Note:

The CENTER TONE control cannot be used when sounds do not come out of the center speaker.

Other Features

The RX-816RBK has some other features like the recording monitor function, the CSRP function and the sleep timer. By using these useful features your audio life will be much improved. The remote control system is more precisely described in this section.

Recording Monitor



Front panel



Remote: Outside

If the cassette deck connected to the TAPE 2 jacks is of the three-head type, you can compare the sound quality of the playing source and of the recording being made on the cassette deck.

To use the recording monitor function

Press the TAPE 2 MONITOR button. The TAPE 2 MONITOR indicator lights up on the front panel and "ON" appears on the display. You can hear the sound just recorded on the tape.

To cancel recording monitor function

Press the TAPE 2 MONITOR button again. The TAPE 2 MONITOR indicator goes off and "OFF" appears on the display, and you hear the sound from the source playing.

Notes:

- Refer also to the manual supplied with your cassette deck.
- Do not press the TAPE 2 MONITOR button if no component is connected to the TAPE 2 jacks; otherwise, no sound comes out of the speakers.

Using the CSRP Function

The optimum sound settings differ for each playing source. So, you have to change settings each time you select a different source.

The JVC's CSRP (COMPU LINK Source-Related Preset) function is used to assign and store different sound settings for each different playing source. By using this function, you don't have to change the settings every time you change the source. The stored settings for the newly selected source are automatically recalled.

The following can be stored for each source:

- Loudness (see page 15)
- Preset SEA modes (see page 22)
- DAP or surround settings (see pages 23 and 26)

Notes:

- For the cassette deck connected to the TAPE 2 jacks, the CSRP function does not work.
- If the source is FM or AM (MW/LW), the CSRP function works only when one of the preset channels from 1—20 is tuned in. You can assign a different setting for each preset channel.



Remote: Outside

To store the sound settings by using the CSRP function

- Press the CSRP ON/OFF button on the Remote. The CSRP indicator starts flashing and remains lit on the display.

- Select the sound effects listed above while the CSRP indicator is lit on the display.

To recall the sound settings

Whenever the CSRP indicator is lit on the display, the settings for the currently selected source is always recalled.

When you change the source, it takes several seconds to activate the CSRP function (the CSRP indicator flashes).

To cancel the CSRP function, press the CSRP ON/OFF button so that the CSRP indicator goes off from the display.

(Even though the CSRP function is canceled, recalled sound effects remains active.)

Using the Sleep Timer

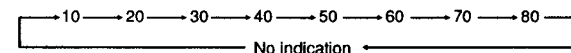
Using the sleep timer, you can fall asleep to music and know the RX-816RBK will turn off by itself rather than play all night.

To set the sleep timer

Press the SLEEP button on the Remote repeatedly while playing a source.

The SLEEP indicator lights up on the display.

Each time you press the button, the shut-off time shown on the display changes as shown below:



The RX-816RBK will turn off after the time you have set.

To check or change the time remaining until the shut-off time

Press the SLEEP button once. The remaining time is displayed in minutes.

If you press the button repeatedly, you can change the shut-off time.

To cancel the sleep timer

Press the SLEEP button repeatedly until the SLEEP indicator goes off.

Using the Remote for Operating JVC's Audio/Video Components

You can operate JVC's audio and video components with this Remote, since control signals for JVC components are preset in the Remote. (You can also use this Remote to operate the other manufacturers' components; see page 35 for more details.)

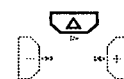
To operate JVC's components with the Remote, make sure the following, before operating that source using the Remote:

- Select a source with the buttons on the SOURCE SELECT section (outside panel) of the Remote.
- Or press the buttons on the CONTROL section (inside panel) of the Remote.

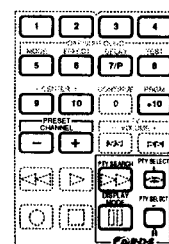
Note:

If you choose a source on the front panel directly, the Remote will not operate that source.

Tuner



Remote: Outside



Remote: Inside

After pressing the AM or FM button (on the SOURCE SELECT section) or the TUNER button (on the CONTROL section), you can perform the following operations on the built-in tuner:

▲ / ▼
1 - 10, +10

Changes the preset channels.

Selects the preset channels directly.

To select preset channel number 5, press 5.

For preset channel number 15, press +10, then 5.

For preset channel number 20, press +10, then 10.

PRESET CHANNEL +/-

Changes the preset channels.

RDS operating buttons

PTY SEARCH Starts and ends searching a broadcast using the RDS.

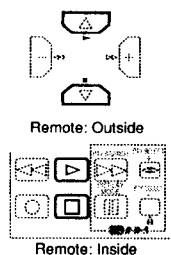
PTY SELECT +/- Selects a program type.

DISPLAY MODE Change the RDS display mode.

Note:

To activate the Remote for tuner operations, you can use the AM button or the FM button on the SOURCE SELECT section (of the outside panel) or the TUNER button on the CONTROL section (of the inside panel). If you press the button on the CONTROL section, you can operate the tuner using the Remote, but the playing source will not be changed to the tuner.

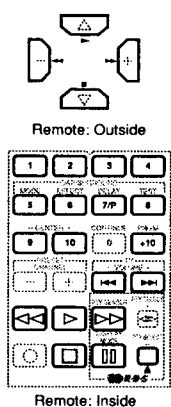
Turntable



After pressing the PHONO button (on the SOURCE SELECT section), you can perform the following operations on a turntable:

- ▶ Starts playing.
- Stops playing.

CD player



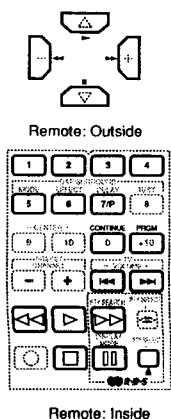
After pressing the CD button (either on the SOURCE SELECT section or on the CONTROL section), you can perform the following operations on a CD player:

- ▶ Starts playing.
- ◀◀ Fast reverses the CD.
- ▶▶ Fast forwards the CD.
- ◀◀ Returns to the beginning of the current track.
- ▶▶ Skips to the beginning of the next track.
- Stops playing.
- ⏏ Stops playing temporarily. To release it, press ▶.
- ▲ Opens or closes the tray.
- 1 — 10, +10 Selects a track number directly
 - To select track number 5, press 5.
 - For track number 15, press +10, then 5.
 - For track number 20, press +10, then 10.

Note:

To activate the Remote for CD operations, you can use either one of the CD buttons — one as the source selecting button on the SOURCE SELECT section (of the outside panel); the other on the CONTROL section (of the inside panel). If you press the one on the CONTROL section, you can operate the CD player using the Remote, but the playing source will not be changed to CD.

CD player-changer



After pressing the CD DISC button (on the CONTROL section), you can perform the following operations on a CD player-changer:

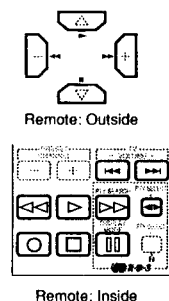
- ▶ Starts playing.
- ◀◀ Fast reverses the CD.
- ▶▶ Fast forwards the CD.
- ◀◀ Returns to the beginning of the current track.
- ▶▶ Skips to the beginning of the next track.
- Stops playing.
- ⏏ Stops playing temporarily. To release it, press ▶.
- ▲ Opens or closes the tray.
- 1 — 6, 7/P Select the number of a disc installed in a CD player-changer.
- CONTINUE Sets the playing mode to the CONTINUE mode.
- PRGM Sets the playing mode to the PROGRAM mode.

Note:

If you have the CD player-changer XL-MC100C and XL-MC100M, 1 — 6 buttons function as the DISC SKIP button.

- Press 2, 4, or 6 to skip to the next disc.
- Press 1, 3, or 5 to skip back to the previous disc.

Cassette deck



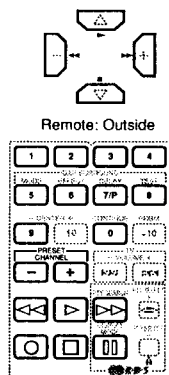
After pressing the TAPE 1 button (either on the SOURCE SELECT section or on the CONTROL section), you can perform the following operations on a cassette deck:

- ▶ Starts playback.
- ◀◀ Fast winds the tape from right to left.
- ▶▶ Fast winds the tape from left to right.
- ◀◀ Returns to the beginning of the current recording.
- ▶▶ Skips to the beginning of the next recording.
- ◀◀ Changes the direction of tape running.
- Stops operation.
- ⏏ Stops playing or recording temporarily. To release it, press ▶.
- Press this button with ▶ to start recording.
- Press this button with ⏏ to enter the recording standby mode.

Note:

To activate the Remote for deck operations, you can use either one of the TAPE 1 buttons — one as the source selecting button on the SOURCE SELECT section (of the outside panel); the other on the CONTROL section (of the inside panel). If you press the one on the CONTROL section, you can operate the cassette deck using the Remote, but the playing source will not be changed to TAPE 1.

VCR



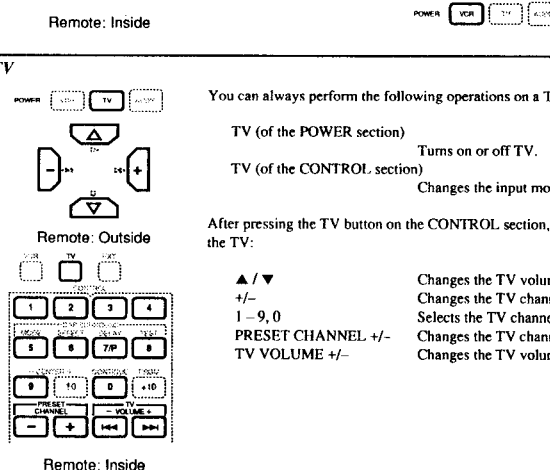
After pressing the VCR button (either on the SOURCE SELECT section or on the CONTROL section), you can perform the following operations on a VCR:

- ▶ Starts playback
- ◀◀ Rewinds a tape
- ▶▶ Fast winds a tape
- Stops operation.
- ⏏ Stops playing or recording temporarily. To release it, press ▶.
- Press this button with ▶ to start recording.
- Press this button with ⏏ to enter the recording standby mode.
- PRESET CHANNEL +/- Changes the TV channels on the VCR.
- 1 — 9, 0 Selects the TV channels on the VCR.

Notes:

- To activate the Remote for VCR operations, you can use either one of the VCR buttons — one as the source selecting button on the SOURCE SELECT section (of the outside panel); the other on the CONTROL section (of the inside panel). If you press the one on the CONTROL section, you can operate the VCR using the Remote, but the playing source will not be changed to VCR.
- You can always turn the VCR on and off by pressing the VCR button of the POWER section (outside panel) on the Remote.

TV



You can always perform the following operations on a TV.

- TV (of the POWER section) Turns on or off TV.
- TV (of the CONTROL section) Changes the input mode to TV.

After pressing the TV button on the CONTROL section, you can also perform the following operations on the TV:

- ▲ / ▼ Changes the TV volume.
- +/- Changes the TV channels.
- 1 — 9, 0 Selects the TV channels.
- PRESET CHANNEL +/- Changes the TV channels.
- TV VOLUME +/- Changes the TV volume.

Simplifying the Operations Using the Remote

You can program a series of operations in a specific order you want. After making a program, you can perform these programmed operations at a press of the SEQUENTIAL PROGRAM KEY.

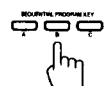
To program a series of operations

You can make 3 different programs, each containing up to 16 steps.

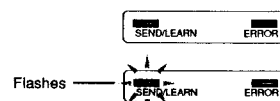
- 1 Open the outside panel of the Remote.
- 2 Press the LEARN button so that the SEND/LEARN indicator lights up (green).
- 3 Close the outside panel.
- 4 Press one of the SEQUENTIAL PROGRAM KEYS (A, B, and C) to which you want to assign a program you are making from now. The SEND/LEARN indicator starts flashing.



Remote: Inside



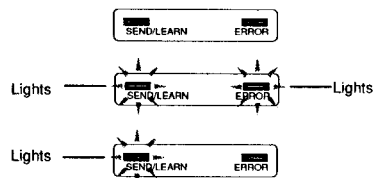
Remote: Outside



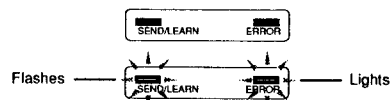
Note:

If the ERROR indicator lights up (red) while the SEND/LEARN indicator is flashing, you have already assigned a program to that SEQUENTIAL PROGRAM KEY. To add steps to the program, continue to Step 5. If you do not want to change it, press another SEQUENTIAL PROGRAM KEY after the SEND/LEARN indicator stops flashing.

- 5 While the SEND/LEARN indicator is flashing, press the button you want to store as the first step of the program. Both the SEND/LEARN and ERROR indicators light up, and then only the ERROR indicator goes off.



When the SEND/LEARN indicator goes off and starts flashing again, the first step is stored. The ERROR indicator lights up while the SEND/LEARN indicator is flashing.



Note:

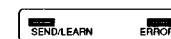
If the SEND/LEARN indicator stops flashing before you press the button, repeat from Step 4 again.

- 6 Repeat Steps 5 until you program up to 16 steps.

Notes:

- If the ERROR indicator flashes 3 times, you cannot program this step.
 - 16 steps are already programmed or this particular step is not programmable.
- You cannot program an operation performed by pressing two buttons at the same time — like pressing ● and ► at the same time to start recording.
- Do not program a TV operation step immediately after the step of turning on the TV. The TV operation may be ignored since the TV is not yet ready to accept the signal.

- 7 Press the LEARN button again to finish the programming procedure. Both the SEND/LEARN and ERROR indicators go off.

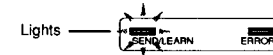


CAUTION:

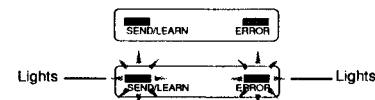
When replacing the batteries, finish it without delay; otherwise, the stored signals are all erased.

To erase a program

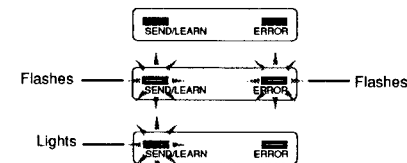
- 1 Open the outside panel of the Remote.
- 2 Press the LEARN button so that the SEND/LEARN indicator lights up (green).



- 3 Press the CANCEL button. Both the SEND/LEARN and ERROR indicators light up.



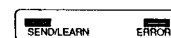
- 4 Close the outside panel, and press and hold the SEQUENTIAL PROGRAM KEY (A, B, or C) to which the program you want to erase has been assigned to, until both the SEND/LEARN and ERROR indicators start flashing.



Note:

If the ERROR indicator remains lit, no program is assigned to the SEQUENTIAL PROGRAM KEY. In this case, press the CANCEL button to turn off the ERROR indicator.

- 5 Press the LEARN button again to finish the erasure. The SEND/LEARN indicator goes off.



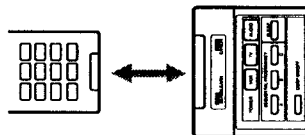
Operating the Other Manufacturers' Audio/Video Components

The Remote supplied with the RX-816RBK can learn and memorize the signals used for the other manufacturers' remote control unit. By storing these signals, you can operate the other manufacturers' audio/video components.

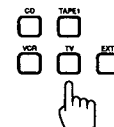
To store the signals

Before storing another manufacturer's signals, make sure that manufacturer's remote control unit (hereafter called "target Remote") actually works.

- 1 Place the two Remotes on a level surface with signal transmitting windows facing each other. Leave a space of 5 cm to 10 cm (2 inches to 4 inches) between the two Remotes; otherwise, storing may be failed.



Remote: Inside



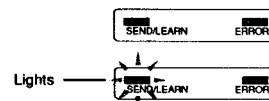
Remote: Inside

- 2 Open the outside panel of this Remote.

- 3 Press the LEARN button so that the SEND/LEARN indicator lights up (green).



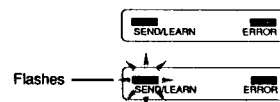
- 4 Press one of the buttons on the CONTROL section. If possible, select the source corresponding to the target Remote's usage.



Note:

Since no signal have been preset for the EXT. mode, you can store signals from the target Remote without losing any preset signals.

- 5 Press one of the buttons (illustrated to the left), to which you want to assign a signal from the target Remote. The SEND/LEARN indicator starts flashing.



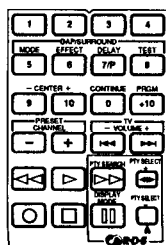
Notes:

- If the ERROR indicator lights red, you have already stored a signal. To change the stored signal, go to the next step. If you do not want to change it, press another button.
- Some buttons such as the PRESET CHANNEL +/-, TV VOLUME +/- (when used for tuner or TV), <|, >|, and <| buttons (when used for CD, TAPE 1 or VCR) are corresponding to the cursor buttons on the outside panel, so if you change the signals for these buttons, the signals the cursor buttons transmit will also change.

Buttons you can assign signals to

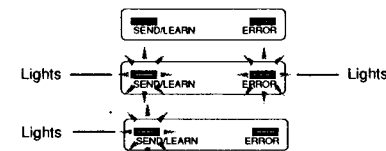


Remote: Outside

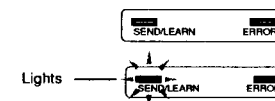


Remote: Inside

- 6 While the SEND/LEARN indicator is flashing, press the button on the target Remote, the signal of which you want to assign to the button of this Remote you have pressed in Step 5. The SEND/LEARN indicator stops flashing and remains lit, and the ERROR indicator also lights red but soon goes off.



After several seconds, the SEND/LEARN indicator goes off and lights up again. This means that the storing is successfully finished.

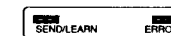


Notes:

- If the SEND/LEARN indicator stops flashing before you press the button on the target Remote, repeat from Step 5 again.
- If the ERROR indicator lights red and does not go off, you have failed in storing the signal.
- If the ERROR indicator flashes, you have failed in storing the signal. Try again. However some signals do not match to this Remote even though this Remote can learn most infrared signals.

- 7 Repeat Steps 4 — 6 to store more signals from the target Remote.

- 8 Press the LEARN button to finish the storing procedure.



Note:

The signals stored into this Remote from the target Remote deviates slightly from the original signals. Since some components will not accept these deviating signals, you may not be able to operate those components using this Remote even though the storing procedure has been successfully finished.

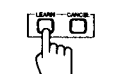
CAUTION:

When replacing the batteries, finish it without delay; otherwise, the stored signals are all erased.

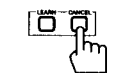
To erase stored signals

After erasing stored signals, preset signals are resumed and you can operate JVC's components again.

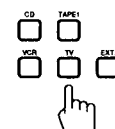
1 Open the outside panel of the Remote.



Remote: Inside



Remote: Inside



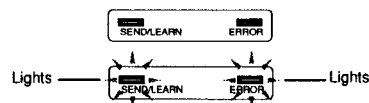
Remote: Inside

2 Press the LEARN button so that the SEND/LEARN indicator lights up (green).



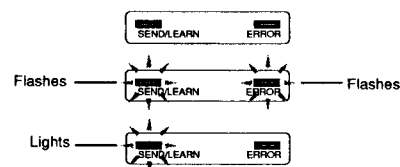
3 Press the CANCEL button.

Both the SEND/LEARN and ERROR indicators light up.



4 Press and hold the one of the buttons on the CONTROL section until both the SEND/LEARN and ERROR indicators start flashing.

All the signals assigned under the selected CONTROL section are erased at the same time. You cannot erase a signal assigned to a particular button only.

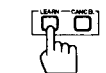
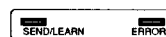


Note:

If the ERROR indicator remains lit, no signals are assigned to the buttons under the selected CONTROL section. In this case, press the CANCEL button to turn off the ERROR indicator.

5 Press the LEARN button again to finish the erasure.

The SEND/LEARN indicator goes off.



Remote: Inside

COMPU LINK Remote Control System



The COMPU LINK remote control system allows you to operate JVC audio components through the remote sensor on the RX-816RBK.

To use this remote control system, you need to connect JVC audio components through the COMPU LINK-3 SYNCHRO jacks (see page 10) in addition to the connections using cables with RCA pin plugs (see page 9). This remote control system allows you to use four functions listed below.

Remote Control through the Remote Sensor on the RX-816RBK

You can control all audio components through the remote sensor on the RX-816RBK using this Remote. For details, see page 30.

Note:

Aim the Remote directly at the remote sensor on the RX-816RBK.

Automatic Source Selection

When you press the play (▶) button on a connected component or on its own Remote, the RX-816RBK automatically turns on and changes the source to the component. On the other hand, if you select a new source on the RX-816RBK or the Remote, the selected component begins playing immediately.

In both cases, the previously selected source continues playing without sound for a few seconds.

Automatic Power On/Off (only possible with the COMPU LINK-3 connection)

Both the CD player and cassette deck turns on and off along with the RX-816RBK.

When you turn on the RX-816RBK, the CD player or cassette deck will turn on automatically, depending on which component has been previously selected.

When you turn off the RX-816RBK, both the CD player and cassette deck will turn off.

Synchronized Recording

Synchronized recording means the cassette deck starts recording as soon as a CD or a record begins playing.

To use synchronized recording, follow these steps:

- 1 Put a tape in the cassette deck, and a disc in the CD player (or a record on the turntable).
- 2 Press the record (●) button and the pause (⏸) button on the cassette deck at the same time. This puts the cassette deck into recording pause.

Note:

If you do not press the record (●) button and pause (⏸) button at the same time, the synchronized recording feature will not operate.

- 3 Press the play (▶) button on the CD player or on the turntable.

The source changes on the RX-816RBK, and as soon as play starts, the cassette deck starts recording. When the play ends, the cassette deck enters recording pause, and stops about 4 seconds later.

Notes:

- During synchronized recording, the selected source cannot be changed.
- If your CD player is playing in program mode, a 4-second blank is recorded between tracks so that the music scan feature of your cassette deck can be used on the recorded tape.
- If the power of any component is shut off during synchronized recording, the COMPU LINK remote control system may not operate properly. In this case, you must start again from the beginning.
- Refer also to the manuals supplied with your audio components.

Troubleshooting

Use this chart to help you solve daily operational problems. If there is any problem you cannot solve, contact your JVC service center.

PROBLEM	POSSIBLE CAUSE	SOLUTION
The display does not light up.	The power cord is not plugged in.	Plug the power cord into an AC outlet.
No sound from speakers.	Speaker wires are not connected.	Check speaker wiring and reconnect if necessary.
	The SPEAKERS buttons are not set correctly.	Press the SPEAKERS buttons in or out correctly.
	An incorrect source is selected.	Select the correct source.
	The TAPE 2 MONITOR indicator lights up when no component is connected to the TAPE 2 jacks.	Press the TAPE 2 MONITOR button so that the indicator goes off.
Sound from one speaker only.	Speaker wires are not connected properly.	Check speaker wiring and reconnect if necessary.
	The BALANCE control is set to one extreme.	Adjust the BALANCE control properly.
Continuous hiss or buzzing during FM reception.	Incoming signal is too weak.	Adjust the antenna.
	The station is too far away.	Select a new station.
	An incorrect antenna is used.	Check with your dealer to be sure you have a correct antenna.
	Antennas are not connected properly.	Check connections.
The source alternates between an FM station and the currently selected source.	An incorrect EON signal are being sent.	Press the EON button so that the EON function is off, and that the EON indicator goes off.
Occasional cracking noise during FM reception.	Ignition noise from automobiles.	Move the antenna farther from automobile traffic.
Howling during record playing.	Your turntable is too close to speakers.	Move speakers away from the turntable.
Remote does not work.	There is an obstruction in front of the remote sensor on the RX-816RBK.	Remove the obstruction.
	Batteries are weak.	Replace batteries.

Specifications

Amplifier

Output Power	At Stereo operation	100 watts per channel, min. RMS, both channels driven into 4 ohms at 1 kHz with no more than 0.9% total harmonic distortion (IEC268-3/DIN).
		70 watts per channel, min. RMS, both channels driven into 8 ohms at 1 kHz with no more than 0.9% total harmonic distortion (IEC268-3/DIN).
		65 watts per channel, min. RMS, both channels driven into 8 ohms, 20 Hz to 20 kHz with no more than 0.007% total harmonic distortion.
	At Surround operation	
	Front Channels	80 watts per channel, min. RMS, driven into 8 ohms at 1 kHz with no more than 0.7% total harmonic distortion.
	Center Channel	80 watts, min. RMS, driven into 8 ohms at 1 kHz, with no more than 0.7% total harmonic distortion.
	Rear Channels	20 watts per channel, min. RMS, driven into 8 ohms at 1kHz, with no more than 0.7% total harmonic distortion.
Total Harmonic Distortion (8 ohms, 1 kHz)		0.007 %* at 65 watts output (* Measured by JVC Audio Analysis System)
Frequency Response (8 ohms)	PHONO CD, TAPE 1, TAPE 2, VCR, VIDEO 1, VIDEO 2	20 Hz to 20 kHz (±0.5 dB) 10 Hz to 30 kHz (±1 dB)
Signal-to-Noise Ratio ('66 IHF/DIN)	PHONO CD, TAPE 1, TAPE 2, VCR, VIDEO 1, VIDEO 2	70 dB/66 dB 91 dB/67 dB
RIAA Phono Equalization		±0.5 dB (20 Hz to 20 kHz)
Audio Input Sensitivity/Impedance (1 kHz)	PHONO CD, TAPE 1, TAPE 2, VCR, VIDEO 1, VIDEO 2	2.7 mV/47 k ohms 230 mV/47 k ohms
Audio Output Level	TAPE 1, TAPE 2, VCR	230 mV
Video Input Sensitivity/Impedance	VCR, VIDEO 1, VIDEO 2	1 V _p -p/75 ohms
Video Output Level	VCR, MONITOR OUT	1 V _p -p (at 1 V _p -p input)
Synchronization		Negative
Signal-to-Noise Ratio		45 dB

FM tuner (IHF)		
Tuning Range		87.5 MHz to 108.0 MHz
Usable Sensitivity		12.7 dBf (1.2 μ V/75 ohms)
50 dB Quieting Sensitivity	Monaural Stereo	16.3 dBf (1.8 μ V/75 ohms) 38.3 dBf (22.5 μ V/75 ohms)
Signal-to-Noise Ratio (IHF-A weighted)	Monaural Stereo	80 dB at 85 dBf 73 dB at 85 dBf
Total Harmonic Distortion	Monaural Stereo	0.15 % at 1 kHz 0.2 % at 1 kHz
Stereo Separation at REC OUT		40 dB at 1 kHz
Capture Ratio		1.5 dB
Alternate Channel Selectivity		60 dB: ($\pm$ 400 kHz)
Frequency Response		30 Hz to 15 kHz: (+0.5 dB, -3 dB)

AM (MW/LW) tuner		
Tuning Range	MW: LW:	522 kHz to 1,629 kHz 144 kHz to 288 kHz
Usable Sensitivity	MW: Loop antenna External antenna LW: Loop antenna	300 μ V/m 30 μ V 600 μ V/m
Signal-to-Noise Ratio		50 dB (100mV/m)

General		
Power Requirements		AC 230V~, 50 Hz
Power Consumption		320 watts 5 watts (in standby mode)
Dimensions (W x H x D)		435 x 156 x 406 mm (17 ³ / ₁₆ x 6 ³ / ₁₆ x 16 inches)
Mass	Continental Europe: U.K.:	13.5 kg (29.8 lbs) 13.6 kg (30 lbs)

Designs & specifications subject to change without notice